

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/002517

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11C11/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX, IBM-TDB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2005/001490 A (NVE CORP) 6 January 2005 (2005-01-06) figure 6 pages 22,32,33	1,2,7,9
P,A	US 2004/095801 A1 (IBM) 20 May 2004 (2004-05-20) figure 2 paragraph '0027!	1
A	FR 2 832 542 A (COMMISSARIAT ENERGIE ATOMIQUE) 23 May 2003 (2003-05-23) figures 9,10 page 17, line 17 - page 18, line 4 page 28, line 9 - page 30, line 2	1-3

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the International search

Date of mailing of the International search report

2 February 2005

23/02/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 385 082 B1 (TROUILLOUD PHILIP L ET AL) 7 May 2002 (2002-05-07) figure 5	1
A	WO 00/79540 A (NONVOLATILE ELECTRONICS INC ;POHM ARTHUR V (US); DAUGHTON JAMES M) 28 December 2000 (2000-12-28) figure 1A page 17, line 24 - page 20, line 13	1
A	BOULOUZ A ET AL: "PREPARATION AND CHARACTERIZATION OF MOCVD BISMUTH TELLURIDE THIN FILMS" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 194, no. 3/4, December 1998 (1998-12), pages 336-341, XP000669099 ISSN: 0022-0248 page 336 page 339	4
A	ZOU H ET AL: "Growth of p- and n-type bismuth telluride thin films by co-evaporation" JOURNAL OF CRYSTAL GROWTH, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 222, no. 1-2, January 2001 (2001-01), pages 82-87, XP004228292 ISSN: 0022-0248 page 82	4
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 12, 29 October 1999 (1999-10-29) & JP 11 175921 A (HITACHI LTD), 2 July 1999 (1999-07-02) abstract	9, 10
P, A	WO 03/094170 A (INFINEON TECHNOLOGIES AG) 13 November 2003 (2003-11-13) figures 1,2 page 7, line 6 - line 14 page 14, line 9 - line 15	1-3
A	US 2003/007398 A1 (POHM ARTHUR V ET AL) 9 January 2003 (2003-01-09) paragraph '0106!	1-11
A	US 2003/123282 A1 (TRAN LUNG T ET AL) 3 July 2003 (2003-07-03) figure 1	1-11
		-/-

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International Application No  
PCT/FR2004/002517

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 829 867 A (CENTRE NAT RECH SCIENT) 21 March 2003 (2003-03-21) the whole document -----	1-11
A	DIENY;SOUSA: "Bias current heating in spin dependent tunnel junctions" 26 September 2003 (2003-09-26), MINATEC 2003 , GRENOBLE, FRANCE , XP002280171 the whole document -----	1-10
A	WO 03/077257 A (AGENCY FOR SCIENCE TECHNOLOGY ;LI KE BIN (SG); QIU JIN JUN (SG); W) 18 September 2003 (2003-09-18) page 8, line 15 - page 9, line 19 -----	1-10
A	US 5 933 365 A (KLERSY PATRICK ET AL) 3 August 1999 (1999-08-03) abstract column 13, line 47 - column 14, line 64 -----	1-10

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/002517

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 2005001490	A	06-01-2005	US WO	2005002267 A1 2005001490 A2		06-01-2005 06-01-2005
US 2004095801	A1	20-05-2004	JP	2004172614 A		17-06-2004
FR 2832542	A	23-05-2003	FR EP WO US	2832542 A1 1466329 A2 03043017 A2 2005002228 A1		23-05-2003 13-10-2004 22-05-2003 06-01-2005
US 6385082	B1	07-05-2002		NONE		
WO 0079540	A	28-12-2000	AU EP WO US	6121100 A 1196925 A1 0079540 A1 6535416 B1		09-01-2001 17-04-2002 28-12-2000 18-03-2003
JP 11175921	A	02-07-1999	JP	3148703 B2		26-03-2001
WO 03094170	A	13-11-2003	US WO EP	2003206434 A1 03094170 A2 1502264 A2		06-11-2003 13-11-2003 02-02-2005
US 2003007398	A1	09-01-2003		NONE		
US 2003123282	A1	03-07-2003	US CN EP JP TW	2002089874 A1 1365117 A 1225592 A2 2002245774 A 519644 B		11-07-2002 21-08-2002 24-07-2002 30-08-2002 01-02-2003
FR 2829867	A	21-03-2003	FR EP WO	2829867 A1 1438722 A1 03025946 A1		21-03-2003 21-07-2004 27-03-2003
WO 03077257	A	18-09-2003	WO	03077257 A1		18-09-2003
US 5933365	A	03-08-1999	AU CA DE EP RU TW WO	8148298 A 2269857 A1 69827598 D1 0938731 A1 2214009 C2 421893 B 9858385 A1		04-01-1999 23-12-1998 23-12-2004 01-09-1999 10-10-2003 11-02-2001 23-12-1998